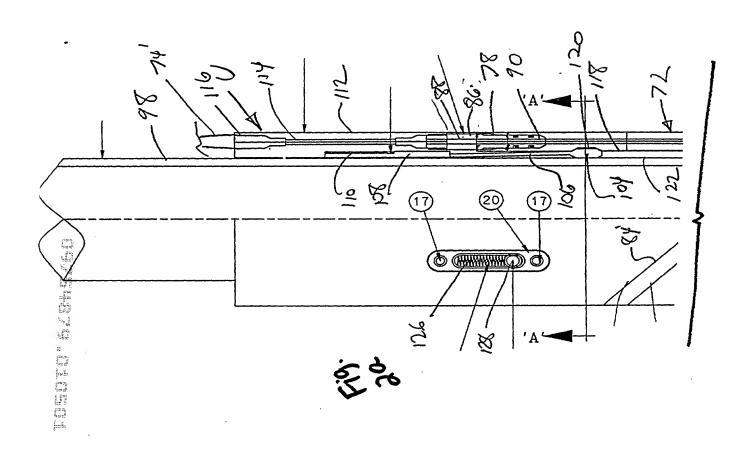
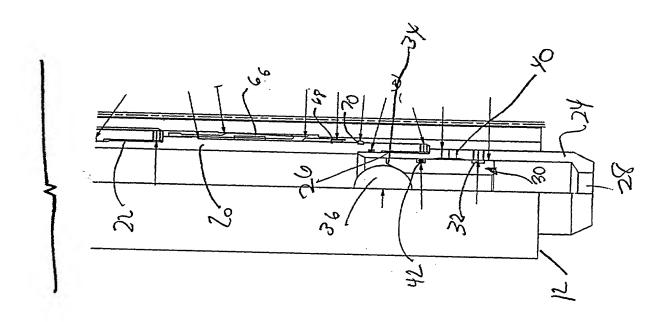


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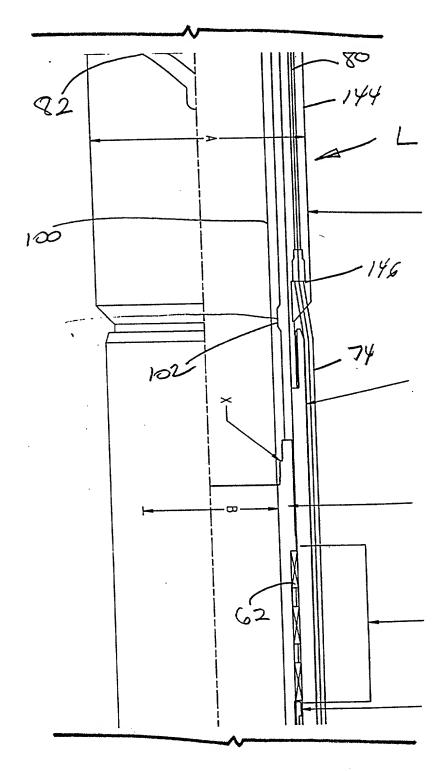


Fig.26

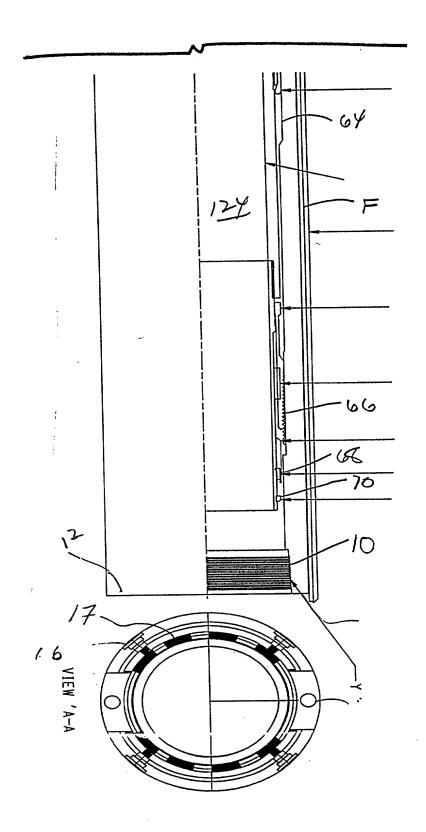
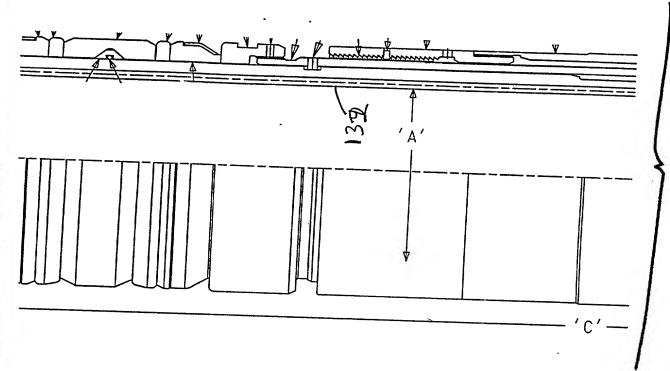
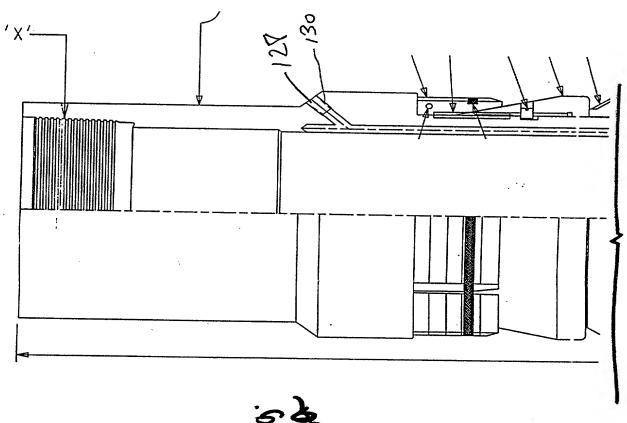
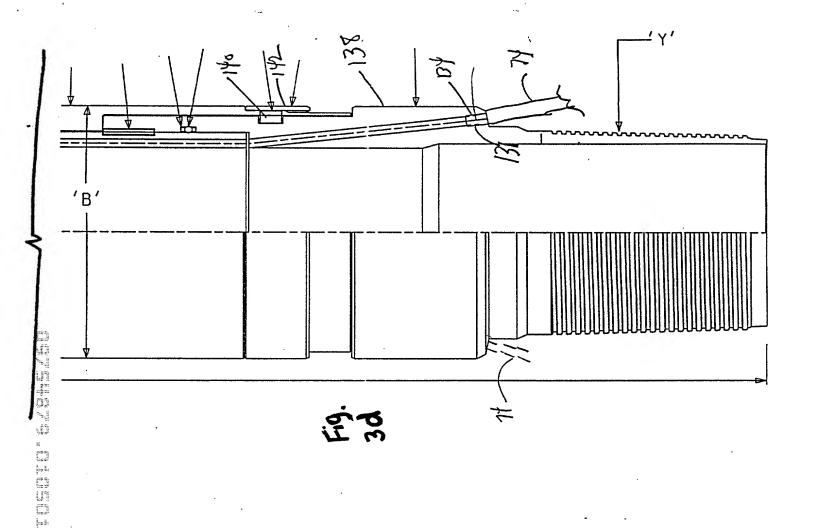


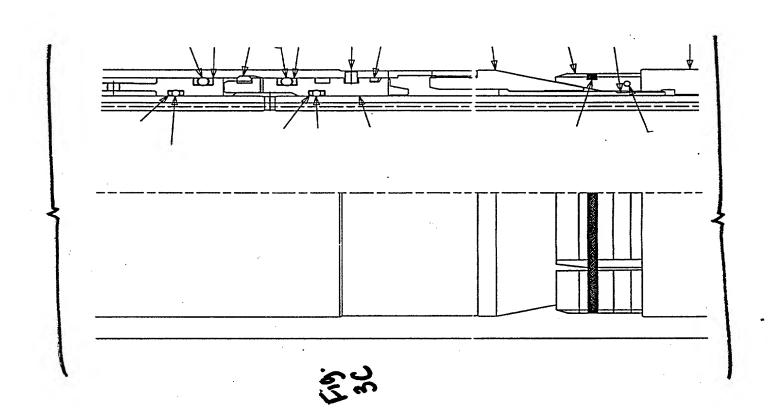
Fig. ac

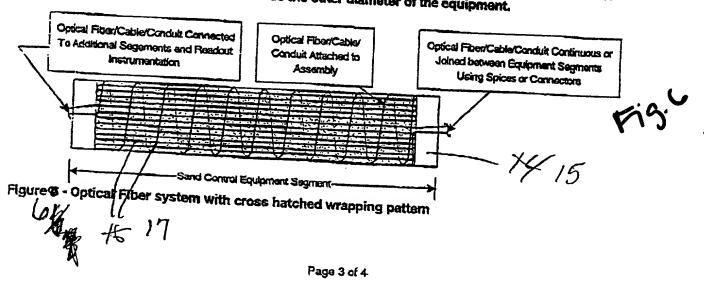


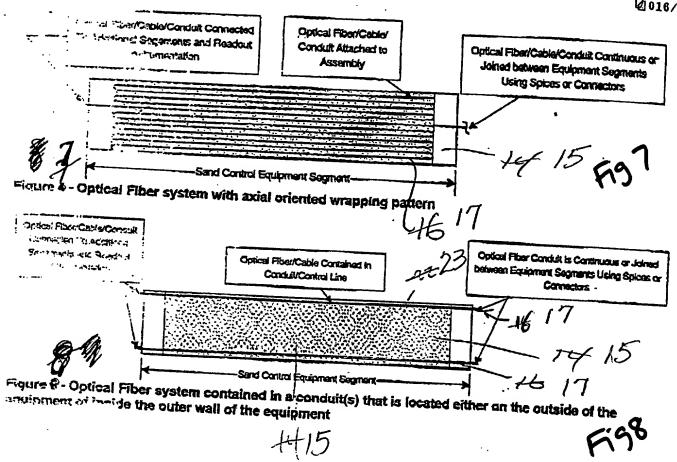
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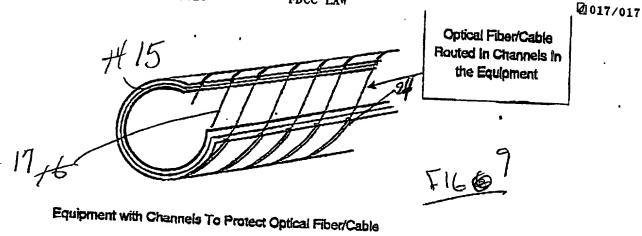


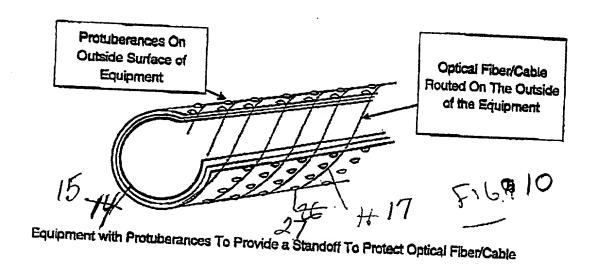


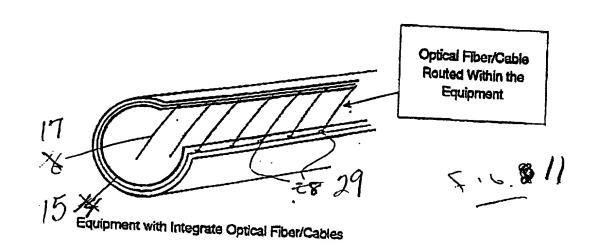












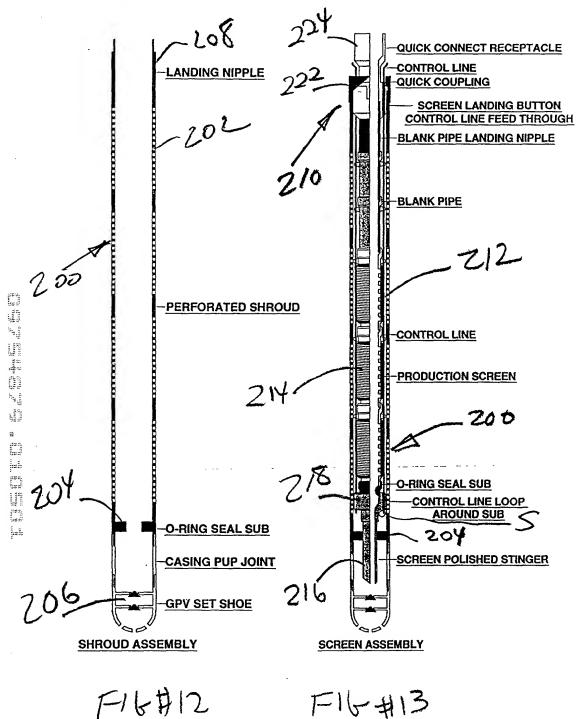
SCREEN / LINER SHROUD ASSEMBLY

Open Hole: 8.500 inches

Maximum OD of Shroud: +/- 7.625"
Minimum ID of Shroud: 7.000"

Screen OD: 5-1/2" EXCLUDER2000 w/ 6.375" OD

Design w/ Near or Flush OD connections to be provided by SC Engineering (Rick Peterson - Ref GANNT Chart)



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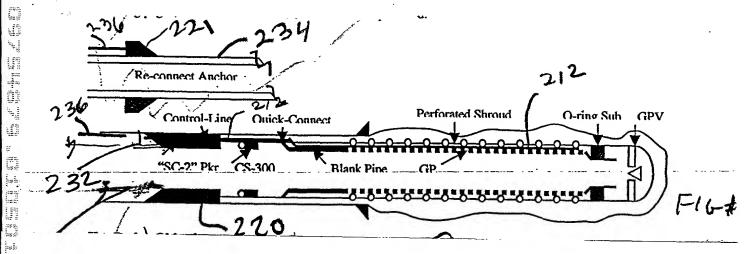
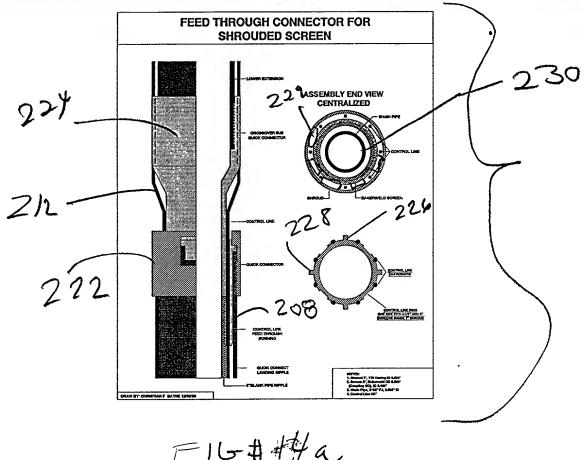


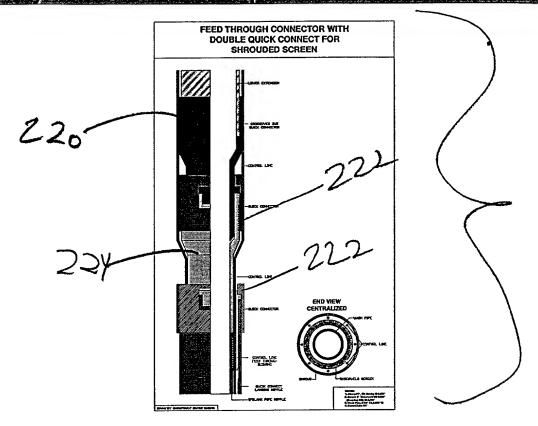
Fig 14

SC System with Fiber Optics

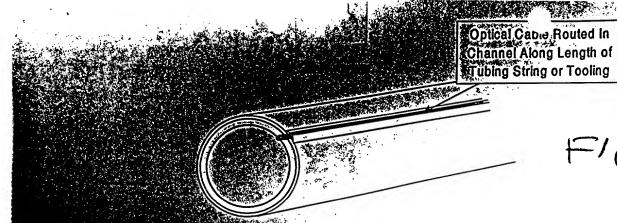


F16##a

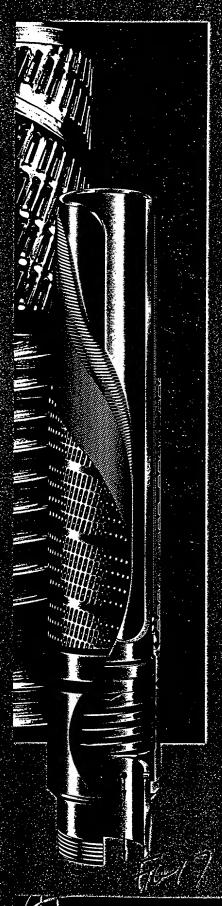
SC System with Fiber Optics



F16#15



F16#16



The EQUALIZER is an incovative reservoir aliabage system that uses an extended tongevity wells or each of specially designed inflow control device to optimize production and delay water or gas control tong, low-clawdown, high-rate horizontal wells. The system balances, or equalizes, longitudinal inflow along the entire length of the wallbore to ensure a uniform production profile.

TOWNER Jestin hnovators

- Plas complation system of successfully create a uniform production profile along the entitle length of a horizontal vellcore
- First complation system to use a halfeal eliginal as a restrictive alarrent to balance inflow from a producing formation
- Matinematical modeling along system to be somitiqued with precise combination of cross sectional area and number and engined etaunels to provide optimal pressure they versus ilong rate characteristics to balance well milong passed on a particular set of formation edge.
- EXCLUDER Mall screens unique, single-layer vector memberne with unitom core incest openings and infow comparable to that of a formation too ensures well productivity by restaining plugging and ensure.

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The inflow control jevice (ICE) uses a helical channel as a resultive element to impose a pressure elstitution along the entile length of the wellbore. In the way, it can control the local production are altany contratory in wellbore as a function of both the average altawoown.

pressure and the average productivity of the well. Final screen stated for a particular travallation is based on pressure drop versus flow rate characteristes required for epitmally balanced well indow from the formation. A numerical simulator has been developed to accurately design the CD within acceptable percentage performance. In some applications, the model is within 5% accuracy.

This accuracy rate has been venified through a series of flow tests. Engineers mentioned flow



rates through varying channels with different sizes, picties and number of spirals. After documenting the results, they developed the software used in the numerical simulator. Operators input data regarding well parameters and reservoir, as well as the pressure and rate at which they want the illust to travel. The computer from alsobaye the channel width, intend width, height and length required to maintain the desired pressure and illust velocity.